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**TRANSMITTAL
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Total Number of Pages in This Submission

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1645
Examiner Name	RILEY, JEZIA
Attorney Docket Number	51871.000003.UTL1

23

ENCLOSURES (Check all that apply)

<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
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<input type="checkbox"/> Remarks The Commissioner is hereby authorized to charge any fees due in connection with this submission, or credit any overpayment to Deposit Account No. 02-4553 in the name of Buchanan Ingersoll Professional Corp.		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm Name	Buchanan Ingersoll, 401 West A Street, Suite 1900, San Diego, CA 92101		
Signature			
Printed name	David Maher		
Date	01-26-05	Reg. No.	40,077

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UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of) Group Art Unit: 1645
)
BAZAN et al.) Examiner: RILEY, JEZIA
)
Serial No.: 10/600,286) Customer. No. 23464
)
Filed: June 20, 2003)
)
For: METHODS AND COMPOSITIONS)
FOR DETECTION AND ANALYSIS)
OF POLYNUCLEOTIDES USING)
LIGHT HARVESTING MULTI-)
CHROMOPHORES)

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97-1.98

Mail Stop Amendment
Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is being filed prior to receipt of a first Office Action on the merits with respect to the above-captioned application. Thus, it is believed that there is no fee due for filing this paper. However, if it is determined that a fee is due, the Commissioner is hereby authorized to charge the requisite fee, or any fees that may be due in connection with this and the attached papers, or with this application during its entire pendency, or to credit any overpayment, to Deposit Account No. 02-4553.

In accordance with 37 C.F.R. §1.56 and 37 C.F.R. §§1.97-1.98, this Information Disclosure Statement, including Forms PTO-SB/08A (2 pages) and PTO-SB/08B (5 pages) and cited documents, is provided herewith.

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 C.F.R. §1.56. The filing of this Information Disclosure Statement is not an admission by Applicants or Applicants' representatives that any of the documents, singly or in any combination, is material. Nor is it an admission that any of the items identified is

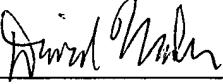
"prior art" against the subject application. Additionally, in accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other information as defined in 37 C.F.R. §1.56(b) exists in addition to those items submitted herewith.

Applicant respectfully requests that the Examiner review the foregoing documents and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

BUCHANAN INGERSOLL P.C.

Date: January 26, 2005

By: 

David W. Maher, Ph.D
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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of 7

Complete if Known

Application Number	10/600,286
Filing Date	June 20, 2003
First Named Inventor	Guillermo C. Bazan
Art Unit	1637
Examiner Name	Riley, Jezia

Attorney Docket Number 51871-000003

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
144	US- 4,948,843 A	08-14-1990	Roberts et al.		
145	US- 4,950,587 A	08-21-1990	Roberts et al.		
146	US- 5,408,109 A	04-18-1995	Heeger et al.		
147	US- 5,612,221 A	03-18-1997	Simons et al.		
148	US- 5,869,350 A	02-09-1999	Heeger et al.		
149	US- 5,881,083 A	03-09-1999	Diaz-Garcia et al.		
150	US- 5,968,762 A	10-19-1999	Jadamec et al.		
151	US- 5,990,479 A	11-23-1999	Weiss et al.		
152	US- 6,280,933 B1	08-28-2001	Glazer et al.		
153	US- 6,534,329 B1	03-18-2003	Heeger et al.		
154	US- 6,743,640 B1	06-01-2004	Whitten		
155	US- 2002/0009728 A1	01-24-2002	Bittner		
156	US- 2002/0034747 A1	03-21-2002	Bruchez		
157	US- 2002/0150759 A1	10-17-2002	Jones		
158	US- 2002/0177136 A1	11-28-2002	McBranch		
159	US- 2003/0054413 A1	03-20-2003	Kumaraswamy		
160	US- 2004/0241768 A1	12-02-2004	Whitten		
161	US- 60/202,647	05-08-2000	Whitten		
162	US- 60/226,902	08-23-2000	Whitten		

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
163	WO 99/35288 A1		07-15-1999	Minnesota Mining and Manufacturing Company		
164	WO 00/14278 A1		03-16-2000	The Secretary of State for Defence		
165	WO 00/66790 A1		11-09-2000	The Regents of the University of California		
166	WO 02/081735 A2		10-17-2002	Infectio Diagnostic (I.D.I.) Inc.		
167	WO 2004/001379 A2		12-31-2003	The Regents of the University of California		

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Substitute for form 1449/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/600,286
		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet <u>12</u> of <u>7</u>		Attorney Docket Number	51871-000003

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Sheet	3	of	7	Attorney Docket Number	51871-000003

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	174	Wang et al., "Size-Specific Interactions Between Single- and Double-Stranded Oligonucleotides and Cationic Water-Soluble Oligofluorenes", <i>Adv. Funct. Mater.</i> , June 2003, 13(6), 463-467.		
	175	Stork et al., "Energy Transfer in Mixtures of Water-Soluble Oligomers: Effect of Charge, Aggregation, and Surfactant Complexation", <i>Adv. Mater.</i> , March 2002, 14(5), 361-366.		
	176	Leclerc, "Optical and Electrochemical Transducers Based on Functionalized Conjugated Polymers", <i>Adv. Mater.</i> , 1999, 11(18), 1491-1498.		
	177	Balakin et al., "Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes", <i>Biosensors & Bioelectronics</i> , 1998, 13, 771-778.		
	178	Ho et al., "Colorimetric and Fluorimetric Detection of Nucleic Acids Using Cationic Polythiophene Derivatives", <i>Angew. Chem. Int. Ed.</i> , 2002, 41(9), 1548-1551.		
	179	McQuade et al., "Conjugated Polymer-Based Chemical Sensors", <i>Chem. Rev.</i> , 2000, 100, 2537-2574.		
	180	Chen et al., "Highly sensitive biological and chemical sensors based on reversible fluorescence quenching in a conjugated polymer", <i>PNAS</i> , October 1999, 96(22), 12287-12292.		
	181	Liu et al., "Effect of Chromophore-Charge Distance in the Energy Transfer Properties of Water-Soluble Conjugated Oligomers", <i>J. Am. Chem. Soc.</i> , 2003, 125, 6705-6714.		
	182	Gaylord et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes", <i>PNAS</i> , August 2002, 99(17), 10954-10957.		
	183	Bronich et al., "Recognition of DNA Topology in Reactions between Plasmid DNA and Cationic Copolymers", <i>J. Am. Chem. Soc.</i> , September 2000, 122(35), 8339-8343.		

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	184	Chen et al., "Tuning the Properties of Conjugated Polyelectrolytes through Surfactant Complexation", J. Am. Chem. Soc., 2000, 122, 9302-9303.		
	185	Gaylord et al., "Water-Soluble Conjugated Oligomers: Effect of Chain Length and Aggregation on Photoluminescence-Quenching Efficiencies", J. Am. Chem. Soc., 2001, 123, 6417-6418.		
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	187	Gaylord et al., "DNA Hybridization Detection with Water-Soluble Conjugated Polymers and Chromophore-Labeled Single-Stranded DNA", J. Am. Chem. Soc., 2003, 125, 896-900.		
	188	Zhou et al., "Fluorescent Chemosensors Based on Energy Migration in Conjugated Polymers: The Molecular Wire Approach to Increased Sensitivity", J. Am. Chem. Soc., 1995, 117, 12593-12602.		
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	190	Hawkins et al., "Incorporation of a fluorescent guanosine analog into oligonucleotides and its application to a real time assay for the HIV-1 integrase 3'-processing reaction", Nucleic Acids Research, 1995, 23(15), 2872-2880.		
	191	Cardullo et al., "Detection of Nucleic Acid Hybridization by Nonradiative Fluorescence Resonance Energy Transfer", Proc. Natl. Acad. Sci. USA, December 1998, 85, 8790-8794.		
	192	Gallot et al., "Poly(L-lysine) containing azobenzene units in the side chains: influence of the degree of substitution on liquid crystalline structure and thermotropic behaviour", Liquid Crystals, 1997, 23(1), 137-146.		
	193	Wang et al., "Biosensors from conjugated polyelectrolyte complexes", PNAS, January 2002, 99(1), 49-53.		

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	194	Liu et al., "Methods for strand-specific DNA detection with cationic conjugation polymers suitable for incorporation into DNA chips and microarrays", PNAS Early Edition, December 2004, p. 1-5	
	195	Vehse et al., "Light Amplification by Optical Excitation of a Chemical Defect in a Conjugated Polymer", Adv. Mater., June 2004, 16(12), 1001-1004.	
	196	Liu et al., "Shape-Adapable Water-Soluble Conjugated Polymers", J. Am. Chem. Soc., 2003, 125, 13306-13307.	
	197	Liu et al., "Interpolyelectrolyte Complexes of Conjugated Copolymers and DNA: Platforms for Multicolor Biosensors", J. Am. Chem. Soc., 2004, 126, 1942-1943.	
	198	Huang et al., "High-Efficiency, Environment-Friendly Electroluminescent Polymers with Stable High Work Function Metal as a Cathode: Green- and Yellow-Emitting Conjugated Polyfluorene Polyelectrolytes and Their Neutral Precursors", J. Am. Chem. Soc., 2004, 126, 9845-9853.	
	199	Service, "DNA Analysis: Microchip Arrays Put DNA on the Spot", The American Association for the Advancement of Science, October 1998, 282(5388), 396-399.	
	200	Southern, "DNA chips: analysing sequence by hybridization to oligonucleotides on a large scale", TIG, March 1996, 12(3), 110-115.	
	201	Epstein et al., "Microarray technology - enhanced versatility, persistent challenge", Current Opinion in Biotechnology, 2000, 11, 36-41.	
	202	Heeger et al., "Making Sense of polymer-based biosensors", PNAS, October 1999, 96(22), 12219-12221.	
	203	Patel et al., "Energy transfer analysis of Fos-Jun dimerization and DNA binding", Proc. Natl. Sci. USA, July 2994, 91, 7360-7364.	

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	204	Lohse et al., "Fluorescein-Conjugated Lysine Monomers for Solid Phase Synthesis of Fluorescent Peptides and PNA Oligomers", Bioconjugate Chem., 1997, 8, 503-509.	
	205	Smith et al., "The synthesis of oligonucleotides containing an aliphatic amino group at the 5' terminus: synthesis of fluorescent DNA primers for use in DNA sequence analysis", Nucleic Acids Research, 1985, 13(7) 2399-2412.	
	206	Wintermeyer et al., "Fluorescent Derivatives of Yeast tRNA(TM)", Eur. J. Biochem., 1979, 98, 465-475.	
	207	Lipshutz et al., "High density synthetic oligonucleotide arrays", Nature Genetics Supplement, January 1999, 21, 20-24.	
	208	Nilsson et al., "Chip solution detection of DNA hybridization using a luminescent zwitterionic polythiophene derivative", Nature Materials, June 2003, 2, 419-424 (Supplementary Information pp. 1-2).	
	209	Dore et al., "Fluorescent Polymeric Transducer for the Rapid, Simple, and Specific Detection of Nucleic Acids at the Zeptomole Level", J. Am. Chem. Soc., 2004, 126, 4240-4244.	
	210	Ranade et al., "High-Throughput Genotyping with Single Nucleotide Polymorphisms", Genome Research, 2001, 11, 1262-1268.	
	211	Schork et al., "Single nucleotide polymorphisms and the future of genetic epidemiology", Clin. Genet., 2000, 58, 250-264.	
	212	Wang et al., "Optically Amplified RNA-Protein Detection Methods Using Light-Harvesting Conjugated Polymers", Adv. Mater., September 2003, 15(17), 1425-1428.	
	213	Liu et al., "Homogeneous Fluorescent-Based DNA Detection with Water-Soluble Conjugated Polymers", Chem. Mater., 2004, 16, 4467-4476.	

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	10/600,286
(Use as many sheets as necessary)				Filing Date	June 20, 2003
				First Named Inventor	Guillermo C. Bzan
				Art Unit	1637
				Examiner Name	Riley Jezia
Sheet	7	of	7	Attorney Docket Number	51871-000003

NON PATENT LITERATURE DOCUMENTS					
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	214	Wolcott, "Advances in Nucleic Acid-Based Detection Methods", Clinical Microbiology Reviews, October 1992, 5(4), 370-386.			
	215	Umek et al., "Electronic Detection of Nucleic Acids, A Versatile Platform for Molecular Diagnostics", Journal of Molecular Diagnostics, May 2001, 3(2), 74-84.			
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	218	Beier et al., "Versatile derivatisation of solid support media for covalent bonding on DNA-microchips", Nucleic Acids Research, 1999, 27(9), 1970-1977.			

Examiner Signature		Date Considered	
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In re the Application of) Group Art Unit: 1645
)
BAZAN et al.) Examiner: RILEY, JEZIA
)
Serial No.: 10/600,286) Customer. No. 23464
)
Filed: June 20, 2003)
)
For: METHODS AND COMPOSITIONS)
FOR DETECTION AND ANALYSIS)
OF POLYNUCLEOTIDES USING)
LIGHT HARVESTING MULTI-)
CHROMOPHORES)

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97-1.98

Mail Stop Amendment
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Dear Sir:

This Information Disclosure Statement is being filed prior to receipt of a first Office Action on the merits with respect to the above-captioned application. Thus, it is believed that there is no fee due for filing this paper. However, if it is determined that a fee is due, the Commissioner is hereby authorized to charge the requisite fee, or any fees that may be due in connection with this and the attached papers, or with this application during its entire pendency, or to credit any overpayment, to Deposit Account No. 02-4553.

In accordance with 37 C.F.R. §1.56 and 37 C.F.R. §§1.97-1.98, this Information Disclosure Statement, including Forms PTO-SB/08 (11 pages) and cited documents, is provided herewith.

The items identified in this Information Disclosure Statement may or may not be "material" pursuant to 37 C.F.R. §1.56. The filing of this Information Disclosure Statement is not an admission by Applicants or Applicants' representatives that any of the documents, singly or in any combination, is material. Nor is it an admission that any of the items identified is

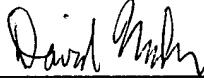
"prior art" against the subject application. Additionally, in accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other information as defined in 37 C.F.R. §1.56(b) exists in addition to those items submitted herewith.

Applicant respectfully requests that the Examiner review the foregoing documents and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

BUCHANAN INGERSOLL P.C.

Date: January 26, 2005

By: 
David W. Maher, Ph.D.
Reg. No. 40,077

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Sheet

1

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	1	BALAKIN, K.V. et al. Conjugates of oligonucleotides with polyaromatic fluorophores as promising DNA probes ¹ ; <i>Biosensors and Bioelectronics</i> (1998) 13:771-778.	
	2	BARDEA, A. et al. Sensing and amplification of oligonucleotide-DNA interactions by means of impedance spectroscopy: a route to a Tay-Sachs sensor; <i>Chem. Commun.</i> (1999) 21-22.	
	3	BAUR, J.W., et al. Thin-Film Light-Emitting Devices Based on Sequentially Adsorbed Multilayers of Water-Soluble Poly (p-phenylene)s; <i>Advanced Materials</i> (1998) 10:17:1452-1455.	
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	10	BIER, F.F. and KLEINJUNG, F. Feature-size limitations of microarray technology - a critical review; <i>Fresenius J. Anal. Chem.</i> (2001) 371:151-156.	
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		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet 12 of 11		Attorney Docket Number 51871-000003	

NON PATENT LITERATURE DOCUMENTS

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	15	CASTRO, A. and WILLIAMS, J.G.K. Single-molecule detection of specific nucleic acid sequences in unamplified genomic DNA; <i>Anal. Chem.</i> (1997) 69:19:3915-3920.	
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	28	EGHOLM, M. et al. PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogenbonding rules; <i>Nature</i> (1993) 365:566-568.	

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		Attorney Docket Number	51871-000003

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	29	EGHOLM, M. et al. Recognition of Guanine and Adenine in DNA by Cytosine and Thymine Containing Peptide Nucleic Acids (PNA); <i>J. Am. Chem. Soc.</i> (1992) 114:9677-9678.	
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	43	GERSHON, H. et al. Mode of Formation and Structural Features of DNA-Cationic Liposome Complexes Used for Transfection; <i>Biochemistry</i> (1993) 32:7143-7151.	
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	50	IZUMRUDOV, V.A. et al. The influence of chain length of a competitive polyanion and nature of monovalent counterions on the direction of the substitution reaction of polyelectrolyte complexes; <i>Makromol. Chem., Rapid Commun.</i> (1988) 9:7-12.	
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Sheet 5 of 11

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	57	JENKINS, Y. and BARTON, J.K. A Sequence-Specific Molecular Light Switch: Tethering of an Oligonucleotide to a Dipyridophenazine Complex of Ruthenium (II); <i>J. Am. Chem. Soc.</i> (1992) 114:8736-8738.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>		Application Number	10/600,286
Sheet	6	of	11
		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
		Attorney Docket Number	51871-000003

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	71	LEULLIOT, N. and VARANI, G. Current Topics in RNA-Protein Recognition: Control of Specificity and Biological Function through Induced Fit and Conformational Capture; <i>Biochemistry</i> (2001) 40:27:7947-7956.	
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		Filing Date	June 20, 2003
		First Named Inventor	Guillermo C. Bazan
		Art Unit	1637
		Examiner Name	Riley, Jezia
Sheet 7 of 11		Attorney Docket Number	51871-000003

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	85	MILLER, I.R. and BACH, D. Interaction of DNA with Heavy Metal Ions and Polybases: Cooperative Phenomena; <i>Biopolymers</i> . (1968) 6:169-179.	
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Sheet 9 of 11

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	138	WHITCOMBE, D. et al. Detection of PCR products using self-probing amplicons and fluorescence; <i>Nat. Biotechnol.</i> (1999) 17:804-807.	
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Examiner's Signature		Date Considered	
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

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